

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/04567

A. CLASSIFICATION OF SUBJECT MATTER		
IPC(7) : H01B 1/22, 1/24; H05K 3/00 US CL : 252/511, 512, 514; 427/96, 125, 229		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) U.S. : 252/511, 512, 514; 427/96, 125, 229		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,882,722 A (KYDD) 16 March 1999 (16.03.1999), Abstract, Column 2, Lines 19-48; Column 6, Line 61 to Column 7, Line 7; Column 7, Lines 52-56, Column 8, Lines 1-8; Column 9, Lines 25-29; Column 11, Line 40 to Column 12, line 19; Figure-6.	1-6
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Y	US 4,333,966 A (DEFFEYES et al) 08 June 1982 (08.06.1982), Abstract, Figures 1-4, Column 3, Lines 22-35; Column 5, Line 40 to Column 6, line 20.	7-20
X	US 5,855,820 A (CHAN et al) 05 January 1999 (05.01.1999), Column 2, lines 8-11, Column 3, line 65 to Column 4, Line 15)	1-6
Y	US 6,372,158 B1 (HASHIMOTO et al) 16 April 2002 (16.04.2002), Figures 2a, 2b, 2c and 3A.	5-6
Y	US 6,114,413 A (KANG et al) 05 September 2000 (05.09.2000), Abstract, Column 1, Lines 40-43; Column 2, Lines 56-67; Column 3, Lines 49-57; Column 5, Lines 13-22.	7-20
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
Date of the actual completion of the international search 03 August 2005 (03.08.2005)	Date of mailing of the international search report 31 AUG 2005	
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